

Technical Data

Float Switch

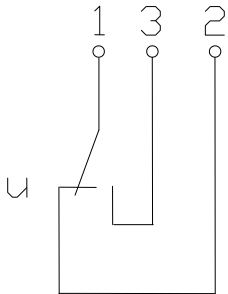
Standard float switches

Description **MAT-713 KTOS 0290**

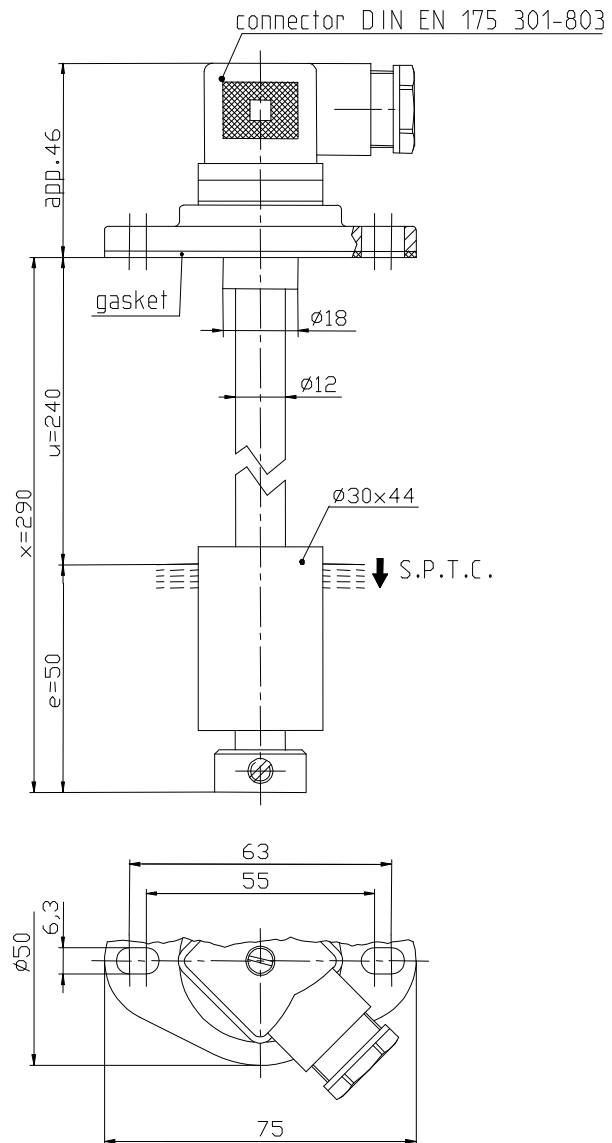
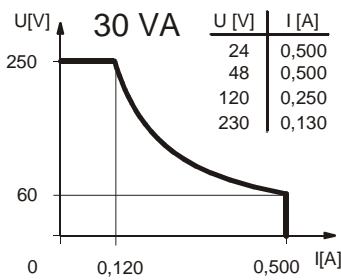
Article number **6815100090**

Wiring diagram

(non activated condition)



Performance diagram



Characteristic features in accordance with EN 60947-5-1

Electrical data

max. switching voltage	250 V
max. switching current	0,5 A
max. switching capacity	30 VA
mechanical life	10^7 to 10^9 switches depending on the load
Switching element	1 x change over contact, falling level
Protection class	II (protective insulation)

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Mechanical data

Flange material	PA6.6
Switching tube material	X6CrNiMoTi17-12-2 (1.4571)
Float material	PP
-density	about 0,6 g/cm ³ ±10%
-depth of immersion	30 mm ±2 mm (to a fluid-density of 1 g/cm ³)
Adjusting ring material	X6CrNiMoTi17-12-2 (1.4571)
Gasket material	NBR
Ambient air temperature	0°C to +60°C
Liquid temperature	0°C to +60°C
Connection	Connector DIN EN 175 301-803 (only with female socket)
Protection type	IP 65 acc to IEC529 / EN 60529
Max. pressure	5 bar

EC Conformity

acc. to Directive 2006/95/EC

General details

Repeatability of switching points is ±0,05mm based on the same geometrical conditions as of a switch device.

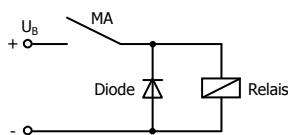
The measures of the switching points refer to a fluid-density of 1 g/cm³.

The tolerance of the switching points is ±2mm

Pay attention to the contact protection, when switching inductive loads. Maximum data must not be exceeded!

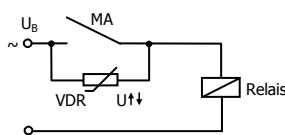
Inductive loads

Direct current

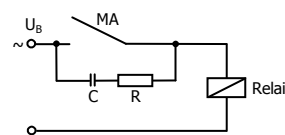


Suppression of voltage peaks with a free-wheeling diode

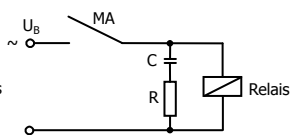
Alternating voltage



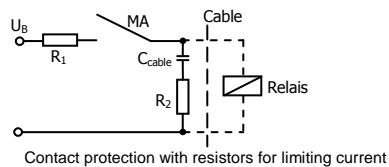
Suppression of voltage peaks with a VDR



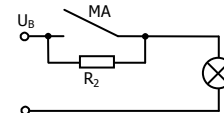
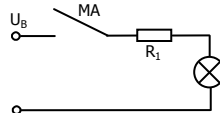
Suppression of voltage peaks with an RC element



Capacitive loads and lamp loads



Contact protection with resistors for limiting current



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